AUDIT REPORT

Hostname: Access_SW1 access-sw1.txt Config file name:

Config hash: 8b7d1fd2e6d09ccca97b0e62c76eddfa48ef16b9

Vendor: cisco OS: ios Facility layer: access L3 protocols: ipv4 Enabled functions: acl created

Date: 18/05/2020_09:49

SUCCESS STATISTICS

Weighted score 90 out of 100 coefficient:

Successful checks: 85.2% Unsuccessful checks: 14.8%

Total number of relevant 149

started checks:

Successful checks: 127 Unsuccessful 'Critical': Unsuccessful 'High': Unsuccessful 'Medium': 10 Unsuccessful 'Low': 1 Unsuccessful 'Notice':

Authentication, Authorization, Accounting

				Cannot			
No.	Name	Severity	Skipped	determine search/fix			
1	AAA new model/ Enabled AAA	High	False	False	Successful 🗸		
_	t configuration setting found in: lew-model						
2	AAA server set	High	False	False	Successful 🗸		
radiu: addre	t configuration setting found in: s server RADIUS_SERVER ess ipv4 192.168.60.11 auth-port 1645 acct-port 16 adKey1	546					
3	AAA server group	High	False	False	Successful 🗸		
aaa g	t configuration setting found in: croup server radius RADIUS_SERVER or name RADIUS_SERVER						
4	AAA authentication login	High	False	False	Successful 🗸		
_	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable					
5	AAA authentication login fallback	High	False	False	Successful 🗸		
Right configuration setting found in: aaa authentication login default group RADIUS_SERVER local enable							

6	AAA authentication login only local disabled	High	False	False	Successful 🗸				
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸				
8	AAA authentication "enable"	Medium	False	False	Successful 🗸				
	Right configuration setting found in: aaa authentication enable default group RADIUS_SERVER enable								
9	AAA authentication "enable" fallback	Medium	False	False	Successful 🗸				
	t configuration setting found in: outhentication enable default group RADIUS_SERVE	R enable							
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸				
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸				
12	AAA authorization "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated						
13	AAA authorization "exec" fallback	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER k	ocal if-authen	ticated						
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸				
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸				
16	AAA accounting "connection"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting connection default start-stop group RAD	OIUS_SERVER							
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸				
18	AAA accounting "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting exec default start-stop group RADIUS_S	ERVER							
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸				
20	AAA source interface	Medium	False	False	Successful 🗸				
	t configuration setting found in: lius source-interface Loopback0								
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸				

Access to device

No.	Name	Severity	Skipped	Cannot determine search/fix		
1	Exec timeout <=5 minutes	Medium	False	False	Successful 🗸	
line of	t configuration setting found in: con 0 -timeout 5 0 /ty 0 4 -timeout 5 0					
2	AUX connection input disabled	High	False	False	Successful 🗸	
3	AUX no execution set	High	False	False	Successful 🗸	
line a	Right configuration setting found in: line aux 0 no exec					
4	Remote output connections disabled	Medium	False	False	Successful 🗸	

Right configuration setting found in: line con 0 transport output none line aux 0 transport output none line vty 0 4 transport output none								
5	Local user database with encrypted password	Critical	False	False	Successful 🗸			
	Right configuration setting found in: username admin secret 5 \$1\$bYMq\$6x0xbBf5YZIHeYfx4uH1Z.							
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸			
7	Enable password encrypted	Critical	False	False	Successful 🗸			
Righ t	t configuration setting found in: e secret 5 \$1\$urlw\$ASP926xbt95SNmLnwVa.h1							
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸			
9	Local login to virtual terminal disabled	Critical	False	False	Successful 🗸			
10	Restrict login to device - IPv4 ACL	Critical	False	False	Successful 🗸			
line v	t configuration setting found in: ty 0 4 ss-class IPV4_VTY_ACL in							
11	ACL specified for VTY access is created	Critical	False	False	Error X			
Cann	ment: ot be fixed automatically!							
Canna mana ip acc rema	otice: ot be fixed automatically! If search is not successfuging devices with these commands: cess-list standard <acl name=""> rk Permiting managemnt device it <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ul create ACL,	which permits	only needed e	end stations for			
12	Log login to device on failure	High	False	False	Successful 🗸			
	t configuration setting found in: on-failure log							
13	Log login to device on success	Medium	False	False	Successful 🗸			
	t configuration setting found in: on-success log							
14	Login quiet mode	Medium	False	False	Successful 🗸			
	t configuration setting found in: quiet-mode access-class IPV4_VTY_ACL							
15	ACL exists for specified login quiet mode	e Medium	False	False	Error X			
	ment: ot be fixed automatically!							
Canna mana ip acc rema	Fix notice: Cannot be fixed automatically! If search is not successful create ACL, which permits only needed end stations for managing devices with these commands: ip access-list standard <acl name=""> remark Permiting managemnt device permit <ip address=""> <wildcard mask=""></wildcard></ip></acl>							
16	One user change config at time	High	False	False	Successful 🗸			
	t configuration setting found in: guration mode exclusive							
17	Legal banner MOTD	Low	False	False	Successful 🗸			
	t configuration setting found in: er motd ^C Unauthorized access will be prosecuted	d!! ^C						
18	Legal banner exec	Low	False	False	Successful 🗸			

Right configuration setting found in: banner exec ^C Unauthorized access will be prosecuted!! ^C banner login ^C Unauthorized access will be prosecuted!! ^C								
19	Legal banner login	Low	False	False	Successful 🗸			
bann	t configuration setting found in: er login ^C Unauthorized access will be prosecute er motd ^C Unauthorized access will be prosecute							
20	Session timeout	Medium	False	False	Successful 🗸			
line of sessi li	on-timeout 30							
21	AUX exec timeout one second	High	False	False	Successful 🗸			
line a	t configuration setting found in: oux 0 timeout 0 1							
22	Restrict login to device - IPv6 ACL	Critical	True	False	Not relevant ✓			
	ment: ped, required function ipv6 not configured on device	ce. Everything	ı is OK.					
23	ACL IPv6 specified for VTY access is created	Critical	True	False	Not relevant ✓			
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
24	Login DOS block for	High	False	False	Successful 🗸			
_	t configuration setting found in: block-for 120 attempts 3 within 30							

SSH

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	SSH enable on management connection	Critical	False	False	Error 🗶			
	nd error in context(s): rty 0 4							
line v	erated fix: ty 0 4 port input ssh							
Make	otice: sure RSA key is present - generated or imported. I o key generate rsa modulus 2048	For generatin	g RSA key, issı	ue command:				
2	SSH version 2	Critical	False	False	Error 🗶			
	erated fix: n version 2							
3	SSH timeout	Medium	False	False	Error X			
Generated fix: ip ssh timeout 30 ip ssh time-out 30 Fix notice: Just one of fixing command is applicable to device. There are more because of different syntax among IOS versions.								
just d 4	SSH max 3 retries	Medium	False	False	Successful 🗸			
•	SST Max S Teches	caiaiii	. 4.50	. 4.50	Juccessiui •			

5	SSH source interface	High	False	False	Error 🗶
	nerated fix: sh source-interface Loopback0				
6	SSH not default port	High	False	False	Error 🗶
	nerated fix: sh port 2223 rotary 1				
7	SSH not default port applied	High	False	False	Successful 🗸
line	ht configuration setting found in: vty 0 4 ary 1				

Device identification

	ne	Severity	Skipped	determine search/fix	
1 Hos	tname set	Low	False	False	Successful 🗸
Right con	: fixed automatically! figuration setting found in: Access_SW1				
2 Dor	nain name set	Low	False	False	Successful 🗸
Right configuration setting found in: ip domain-name thesis-test.cz					
3 All i	nterfaces have description	Low	False	False	Error 🗶

Comment:

Cannot be fixed automatically!

Right configuration setting found in:

interface Ethernet0/0 description trusted-uplink interface Ethernet0/1 description trusted-uplink

Found port(s) with error:

Loopback0

Port-channel1

Ethernet0/2

Ethernet0/3

Ethernet1/0

Ethernet1/1

Ethernet1/2

Ethernet1/3 Ethernet2/0

Ethernet2/1

Ethernet2/2

Ethernet2/3

Ethernet3/0

Ethernet3/1

Ethernet3/2

Ethernet3/3

Serial4/0

Serial4/1

Serial4/2

Serial4/3

Serial5/0

Serial5/1

Serial5/2 Serial5/3

Vlan1

Fix notice:

Set interface descrtiption with command: interface <interface name>

description <description of interface>

Fix ignore comment:

ip access-list standard <acl name>

permit <ip address> <wildcard mask>

remark Permiting SNMP

Fixing commands suppressed due to manual need of manual chenage and name determination.

SNMP

No.	Name	Severity	Skipped	Cannot determine search/fix	Status		
1	SNMP v2 write disabled	Critical	False	False	Successful 🗸		
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸		
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸		
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸		
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸		
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Error 🗶		
	r configuration setting found in: o-server group SNMP_V3_GRP v3 auth read READVII	EWv3 access	SNMP_V3				
7	SNMP v3 read authpriv with ACL enabled	d Critical	False	False	Error 🗶		
	o-server group SNMP_V3_GRP v3 priv read READVIE o-server user SNMPv3USER SNMP_V3_GRP v3 auth s o-v3 SNMP v3 read authpriv with IPv6 ACL enabled		_	es 256 SnmpPas False	Not relevant		
	ment: bed, required function ipv6 not configured on device SNMP user v1 v2c or v3	e. Everything	is OK.				
9	[noauth authnopriv no sha no aes without ACL] disabled	Critical	False	False	Successful 🗸		
10	SNMP trap source interface	High	False	False	Successful 🗸		
_	t configuration setting found in: o-server trap-source Loopback0						
11	SNMP server location	High	False	False	Successful 🗸		
_	t configuration setting found in: o-server location GNS3LAB						
12	SNMP v3 traps priv	Medium	False	False	Error X		
	erated fix: o-server host 192.168.60.11 version 3 priv SNMPv3						
13	SNMP traps v3 read [authnopriv noauth] or v1 v2 disabled	Critical	False	False	Error 🗶		
	r configuration setting found in: o-server host 192.168.60.11 version 3 auth SNMPv3	BUSER					
14	SNMP traps enabled	Medium	False	False	Successful 🗸		
	t configuration setting found in: o-server enable traps snmp authentication linkdowr	n linkup colds	tart warmstart				
15	ACL is created for SNMPv3	Critical	False	False	Error 🗶		
Comment: Cannot be fixed automatically!							
Cann recei	notice: ot be fixed automatically! If search is not successfunction ving SNMP with these commands: cess-list standard <acl name=""></acl>	ul create ACL	, which permits	only needed e	nd stations for		

16	ACL IPv6 is created for SNMPv3	Critical	True	False	Not relevant ✓			
	m ent: ped, required function ipv6 not configured on devi	ce. Everythin	g is OK.					
17	SNMP interface index persist enabled globally	High	False	False	Successful 🗸			
Right configuration setting found in: snmp ifmib ifindex persist								
18	SNMP interface index persist enabled per interface	High	False	False	Matched by equivalent ✓			
Comment: Module was marked as matched by equivalent by module 05 20 snmp ifindex persist globally.yaml								

Syslog

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Syslog server enabled	High	False	False	Successful 🗸
	t configuration setting found in: ng host 192.168.60.11				
2	Syslog server IPv6 enabled	High	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on devic	e. Everything	is OK.		
3	Syslog source interface	Medium	False	False	Successful 🗸
	t configuration setting found in: ng source-interface Loopback0				
4	Syslog format	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce timestamps log datetime msec				
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸
	t configuration setting found in: ng console critical				
6	Syslog send informational traps	High	False	False	Successful 🗸
7	Syslog buffer set with severity	High	False	False	Successful 🗸
	t configuration setting found in: ng buffered 40960 informational				
8	Syslog local backup	High	False	False	Successful 🗸
	t configuration setting found in: ng persistent url unix:/				
9	Syslog sequence numbers added	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce sequence-numbers				

NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Successful 🗸
_	t configuration setting found in: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Successful 🗸

_	ht configuration setting found in: source Loopback0						
3	NTP authentication key	High	False	False	Successful 🗸		
_	ht configuration setting found in: authentication-key 1 md5 0208104B3B07	1C325B4A584B56 7					
4	NTP trusted key	High	False	False	Successful 🗸		
Right configuration setting found in: ntp trusted-key 1							
5	NTP authenticate	High	False	False	Successful 🗸		
Right configuration setting found in: ntp authenticate							

High load

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	SNMP traps for CPU load	Medium	False	False	Error 🗶		
	erated fix: o-server enable traps cpu threshold						
2	Threshold for CPU load	Medium	False	False	Successful 🗸		
_	t configuration setting found in: ess cpu threshold type total rising 70 interval 5						
3	Statistics entry for CPU load	Low	False	False	Successful 🗸		
_	t configuration setting found in: ess cpu statistics limit entry-percentage 70						
4	Reserve memory for critical notification	Medium	False	False	Successful 🗸		
	t configuration setting found in: ory reserve critical 1000						
5	Minimum CPU memory notification	Medium	False	False	Successful 🗸		
_	t configuration setting found in: ory free low-watermark processor 2000						
6	Minimum IO memory notification	Medium	False	False	Error 🗶		
	Generated fix: memory free low-watermark io 2000						

Spanning tree

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Portfast globally enabled	High	False	False	Successful 🗸
_	t configuration setting found in: ning-tree portfast edge default				
2	Portfast enabled on access interface	High	False	False	Matched by equivalent ✔
	ment: lle was marked as matched by equivalent by modu	ile 09_01_stp	_portfast_defau	ılt.yaml	
3	BPDU Guard globally enabled	Critical	False	False	Successful 🗸
Right configuration setting found in: spanning-tree portfast edge bpduguard default					
4	BPDU Guard enabled on access interface	e High	False	False	Matched by equivalent ✓

	Comment: Module was marked as matched by equivalent by module 09_03_stp_bpdu_guard.yaml						
5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸		
6	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓		
Modu	Comment: Module 09_06_stp_bpdu_filter_interface.yaml configured to run after 09_05_stp_bpdu_filter.yaml with status error but that module has not run yet with specified cmd_match_status, 09_06_stp_bpdu_filter_interface.yaml will not run						
7	Loop Guard globally enabled	Critical	False	False	Successful 🗸		
_	t configuration setting found in: ning-tree loopguard default						
8	Loop Guard enabled on access interface	High	False	False	Matched by equivalent ✓		
Com	ment:						

VLAN

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Default Vlan not used	Critical	False	False	Error X

Comment:

Cannot be fixed automatically! Cannot automatically determine VLAN assignment to port.

Module was marked as matched by equivalent by module 09 07 stp loop guard.yaml

Right configuration setting found in:

interface Ethernet0/2 switchport access vlan 20

Found port(s) with error:

Ethernet0/3

Ethernet1/0

Ethernet1/1

Ethernet1/2

Ethernet1/3

Ethernet2/0

Ethernet2/1

Ethernet2/2 Ethernet2/3

Ethernet3/0

Ethernet3/1

Ethernet3/2

Ethernet3/3

Fix notice:

Eliminate ports with default Vlan by command with Vlan ID different than 1 interface <interface name>

switchport mode access

switchport access vlan <vlan id>

2 Management VLAN + SVI set and Medium False False Error X

Comment

Cannot be fixed automatically! Cannot automatically set diffrenet IP among SVI(s) a lot of prerequirements must be met as existing VLAN and port assigned to VLAN.

Fix notice:

If successful, it means SVI was found, but it might not be management VLAN!! Management VLAN can be created with command:

interface Vlan <vlan id>

ip address <ip> <mask>

no shutdown

3 Management VLAN gateway Medium False False Error 🗶

Comment:

Cannot be fixed automatically! Cannot automatically set default gateway among different switches.

Fix notice: Default gateway can be set with command: ip default-gateway <ip address=""></ip>				
4 Native vlan different than 1	Critical	False	False	Successful 🗸
Right configuration setting found in: interface Port-channel1 switchport trunk native vlan 100 interface Ethernet0/0 switchport trunk native vlan 100 interface Ethernet0/1 switchport trunk native vlan 100				
5 Specified allowed VLAN on trunk	Critical	False	False	Successful 🗸
Right configuration setting found in: interface Port-channel1 switchport trunk allowed vlan 20,30 interface Ethernet0/0 switchport trunk allowed vlan 20,30 interface Ethernet0/1 switchport trunk allowed vlan 20,30				
6 Switchport mode dynamic disabled	Critical	False	False	Successful 🗸
7 Switchport implicit dynamic disabled	Critical	False	False	Successful 🗸
Right configuration setting found in: interface Ethernet0/2 switchport mode access interface Ethernet0/3 switchport mode access interface Ethernet1/0 switchport mode access interface Ethernet1/1 switchport mode access interface Ethernet1/2 switchport mode access interface Ethernet1/3 switchport mode access interface Ethernet2/0 switchport mode access interface Ethernet2/1 switchport mode access interface Ethernet2/2 switchport mode access interface Ethernet2/3 switchport mode access interface Ethernet3/0 switchport mode access interface Ethernet3/1 switchport mode access interface Ethernet3/2 switchport mode access interface Ethernet3/3 switchport mode access				
8 DTP disabled	Critical	False	False	Successful 🗸

Right configuration setting found in:

interface Port-channel1 switchport nonegotiate interface Ethernet0/0 switchport nonegotiate interface Ethernet0/1 switchport nonegotiate interface Ethernet0/2 switchport nonegotiate interface Ethernet0/3 switchport nonegotiate interface Ethernet1/0 switchport nonegotiate interface Ethernet1/1 switchport nonegotiate interface Ethernet1/2 switchport nonegotiate interface Ethernet1/3 switchport nonegotiate interface Ethernet2/0 switchport nonegotiate interface Ethernet2/1 switchport nonegotiate interface Ethernet2/2 switchport nonegotiate interface Ethernet2/3 switchport nonegotiate interface Ethernet3/0 switchport nonegotiate interface Ethernet3/1 switchport nonegotiate interface Ethernet3/2 switchport nonegotiate interface Ethernet3/3 switchport nonegotiate

9	VTP disabled	Critical	False	False	Successful 🗸
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Network Mapping

Right configuration setting found in: no cdp run 2 CDP disabled on interface(s) Critical False False Matched by equivalent Comment: Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml 3 LLDP globally disabled Critical False False Successful 4 LLDP receive disabled on interface(s) Critical False False Comment: Module 11_04_lldp_receive.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that mas not run yet with specified cmd_match_status, 11_04_lldp_receive.yaml will not run						
Right configuration setting found in: no cdp run 2 CDP disabled on interface(s) Critical False False Matched by equivalent or equivalent or equivalent or equivalent or comment: Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml 3 LLDP globally disabled Critical False False Successful or equivalent or equ	No.	Name	Severity	Skipped	determine	Status
no cdp run 2 CDP disabled on interface(s) Critical False False Matched by equivalent • Comment: Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml 3 LLDP globally disabled Critical False False Successful • 4 LLDP receive disabled on interface(s) Critical False False Not relevant • Comment: Module 11_04_Ildp_receive.yaml configured to run after 11_03_Ildp_run_disabled.yaml with status error but that mas not run yet with specified cmd_match_status, 11_04_Ildp_receive.yaml will not run 5 LLDP transmit disabled on interface(s) Critical False False Not relevant • Comment: Module 11_05_Ildp_transmit.yaml configured to run after 11_03_Ildp_run_disabled.yaml with status error but that	1	CDP globally disabled	Critical	False	False	Successful 🗸
Comment: Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml LLDP globally disabled	_					
Module was marked as matched by equivalent by module 11_01_cdp_run_disabled.yaml 3 LLDP globally disabled	2	CDP disabled on interface(s)	Critical	False	False	Matched by equivalent ✓
4 LLDP receive disabled on interface(s) Critical False False Comment: Module 11_04_lldp_receive.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that m has not run yet with specified cmd_match_status, 11_04_lldp_receive.yaml will not run 5 LLDP transmit disabled on interface(s) Critical False False Comment: Module 11_05_lldp_transmit.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that			ile 11_01_cdp	_run_disabled.	yaml	
Comment: Module 11_04_lldp_receive.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that m has not run yet with specified cmd_match_status, 11_04_lldp_receive.yaml will not run LLDP transmit disabled on interface(s) Critical False False Comment: Module 11_05_lldp_transmit.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that	3	LLDP globally disabled	Critical	False	False	Successful 🗸
Module 11_04_lldp_receive.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that m has not run yet with specified cmd_match_status, 11_04_lldp_receive.yaml will not run 5 LLDP transmit disabled on interface(s) Critical False False Comment: Module 11_05_lldp_transmit.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that	4	LLDP receive disabled on interface(s)	Critical	False	False	Not relevant ✓
5 LLDP transmit disabled on interface(s) Critical False False Comment: Module 11_05_lldp_transmit.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that	Modu	ule 11_04_lldp_receive.yaml configured to run after				error but that module
Module 11_05_lldp_transmit.yaml configured to run after 11_03_lldp_run_disabled.yaml with status error but that	5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓
	Modu	ule 11_05_lldp_transmit.yaml configured to run afte				error but that
6 ICMP 224.0.0.1 ping disabled in ACL Medium False False Successful	6	ICMP 224.0.0.1 ping disabled in ACL	Medium	False	False	Successful 🗸

remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any 1 log-input permit ip any any remark deny ping all nodes remark deny host query IGMP Host Query disabled in ACL Medium False **False** Successful < Right configuration setting found in: ip access-list extended DENY_NETWORK_MAP remark deny ping all nodes deny icmp any host 224.0.0.1 echo log-input remark deny host query deny igmp any any 1 log-input permit ip any any remark deny ping all nodes remark deny host query Not relevant False 8 ICMPv6 ff02::1 ping disabled in ACL Medium True Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant MLD Host Query disabled in ACL False Medium True Comment: Skipped, required function ipv6 not configured on device. Everything is OK. ACL against IPv4 network monitoring Medium False **False** Successful < applied on interface(s) Right configuration setting found in: interface Ethernet0/2 ip access-group DENY NETWORK MAP in interface Ethernet0/3 ip access-group DENY NETWORK MAP in interface Ethernet1/0 ip access-group DENY NETWORK MAP in interface Ethernet1/1 ip access-group DENY_NETWORK_MAP in interface Ethernet1/2 ip access-group DENY NETWORK MAP in interface Ethernet1/3 ip access-group DENY NETWORK MAP in interface Ethernet2/0 ip access-group DENY NETWORK MAP in interface Ethernet2/1 ip access-group DENY_NETWORK_MAP in interface Ethernet2/2 ip access-group DENY NETWORK MAP in interface Ethernet2/3 ip access-group DENY NETWORK MAP in interface Ethernet3/0 ip access-group DENY NETWORK MAP in interface Ethernet3/1 ip access-group DENY_NETWORK_MAP in interface Ethernet3/2 ip access-group DENY_NETWORK_MAP in interface Ethernet3/3 ip access-group DENY_NETWORK_MAP in Not relevant ACL against IPv6 network monitoring 11 Medium True False applied on interface(s) Comment: Skipped, required function ipv6 not configured on device. Everything is OK.

Filtering

Right configuration setting found in: ip access-list extended DENY_NETWORK_MAP

No. Name	Severity Skipped	Cannot determine Status search/fix	

1	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
2	ACL filter IPv6 unknown extended header applied on ACCESS interface	Critical	True	False	Not relevant ✓		
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						

First Hop Security

NO.	Name	Severity	Skipped	Cannot determine search/fix	
1	Port security enabled	Critical	False	False	Successful 🗸
interfaswitch	c configuration setting found in: ace Ethernet0/2 apport port-security ace Ethernet1/0 apport port-security ace Ethernet1/1 apport port-security ace Ethernet1/2 apport port-security ace Ethernet1/3 apport port-security ace Ethernet2/0 apport port-security ace Ethernet2/1 apport port-security ace Ethernet2/1 apport port-security ace Ethernet3/2 apport port-security ace Ethernet3/3 apport port-security ace Ethernet3/1 apport port-security ace Ethernet3/1 apport port-security ace Ethernet3/2 apport port-security ace Ethernet3/1 apport port-security ace Ethernet3/2 apport port-security ace Ethernet3/2 apport port-security ace Ethernet3/3 apport port-security ace Ethernet3/3 apport port-security				
2	Port security maximum 1 allowed MAC on port	Critical	False	False	Successful 🗸
3	Port security violation shutdown	Critical	False	False	Successful 🗸
4	802.1x globally enabled	High	False	False	Successful 🗸
_	configuration setting found in: system-auth-control				
	AAA authentication 802.1x	High	False	False	Successful 🗸
	configuration setting found in: uthentication dot1x default group RADIUS_SERVE				
6	802.1x enabled on interfaces	High	False	False	Successful 🗸

Right configuration setting found in: interface Ethernet0/2 access-session port-control auto interface Fthernet0/3 access-session port-control auto interface Ethernet1/0 access-session port-control auto interface Ethernet1/1 access-session port-control auto interface Ethernet1/2 access-session port-control auto interface Ethernet1/3 access-session port-control auto interface Ethernet2/0 access-session port-control auto interface Ethernet2/1 access-session port-control auto interface Ethernet2/2 access-session port-control auto interface Ethernet2/3 access-session port-control auto interface Ethernet3/0 access-session port-control auto interface Ethernet3/1 access-session port-control auto interface Ethernet3/2 access-session port-control auto interface Ethernet3/3 access-session port-control auto 7 802.1x enabled on interfaces High **False False** Successful < 8 802.1x port set authenticator High False False Successful < Right configuration setting found in: interface Ethernet0/2 dot1x pae authenticator interface Ethernet0/3 dot1x pae authenticator interface Ethernet1/0 dot1x pae authenticator interface Ethernet1/1 dot1x pae authenticator interface Ethernet1/2 dot1x pae authenticator interface Ethernet1/3 dot1x pae authenticator interface Ethernet2/0 dot1x pae authenticator interface Ethernet2/1 dot1x pae authenticator interface Ethernet2/2 dot1x pae authenticator interface Ethernet2/3 dot1x pae authenticator interface Ethernet3/0 dot1x pae authenticator interface Ethernet3/1 dot1x pae authenticator interface Ethernet3/2 dot1x pae authenticator interface Ethernet3/3 dot1x pae authenticator DHCP Snooping globally enabled Critical **False False** Successful < Right configuration setting found in: ip dhcp snooping 10 DHCP Snooping enabled for VLAN(s) Critical **False False** Successful 🗸 Right configuration setting found in: ip dhcp snooping vlan 10,20,30,40,50,60 DHCP Snooping trust interface(s) set Critical **False False** Successful < Right configuration setting found in: interface Port-channel1 ip dhcp snooping trust interface Ethernet0/0 ip dhcp snooping trust interface Ethernet0/1

ip dhcp snooping trust

12	DHCP Snooping rate limit fo ACCESS interface(s) set	High	False	False	Successful 🗸
inter ip dh inter	the configuration setting found in: face Ethernet0/2 face Ethernet0/3 face Ethernet1/0 face Ethernet1/0 face Ethernet1/0 face Ethernet1/1 face snooping limit rate 100 face Ethernet1/1 face Face Ethernet1/2 face Ethernet1/2 face Ethernet1/3 face Ethernet1/3 face Ethernet2/0 face Ethernet2/0 face Ethernet2/0 face Ethernet2/1 face snooping limit rate 100 face Ethernet2/1 face snooping limit rate 100 face Ethernet2/2 face snooping limit rate 100 face Ethernet2/3 face Ethernet2/3 face Snooping limit rate 100 face Ethernet3/0 face Ethernet3/1 face Ethernet3/1 face Ethernet3/2 face snooping limit rate 100 face Ethernet3/2 face Ethernet3/2 face Snooping limit rate 100 face Ethernet3/2 face Face Face Face Face Face Face Face F				
13	IPv6 Unicast Routing enabled	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Everythir	ng is OK.		
14	IPv6 RA Guard host policy defined	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Everythir	ng is OK.		
15	IPv6 RA Guard on ACCESS interface(s)	-	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Everythir	ng is OK.		
16	DHCPv6 Server policy	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Evervthir	ng is OK.		
17	DHCPv6 Client policy	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Everythir	ng is OK.		
18	DHCPv6 Guard server interface(s) set	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on dev	vice. Everythir	ng is OK.		

19	DHCPv6 Guard client interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
20	Dynamic ARP Inspection enabled for VLAN(s)	Critical	False	False	Successful ✓		
	t configuration setting found in: o inspection vlan 10,20,30,40,50,60						
21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Successful ✓		
_	t configuration setting found in: o inspection validate src-mac dst-mac ip						
22	Dynamic ARP trusted interface(s) set	Critical	False	False	Successful 🗸		
Right configuration setting found in: interface Port-channel1 ip arp inspection trust interface Ethernet0/0 ip arp inspection trust interface Ethernet0/1 ip arp inspection trust							
23	IPv6 ND inspection policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
24	IPv6 ND inspection on interface(s) set	Critical	True	False	Not relevant ✓		
	ment: ped, required function ipv6 not configured on dev	ice. Everythin	g is OK.				
25	IPv6 Snooping policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
26	IPv6 Snooping on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
27	IP Source Guard on interface(s) set	Critical	False	False	Successful 🗸		

inter ip ve inter	t configuration setting found in: face Ethernet0/2 rify source port-security face Ethernet1/0 rify source port-security face Ethernet1/1 rify source port-security face Ethernet1/2 rify source port-security face Ethernet1/3 rify source port-security face Ethernet2/0 rify source port-security face Ethernet2/1 rify source port-security face Ethernet2/1 rify source port-security face Ethernet2/2 rify source port-security face Ethernet2/3 rify source port-security face Ethernet3/1 rify source port-security face Ethernet3/1 rify source port-security face Ethernet3/2 rify source port-security face Ethernet3/2 rify source port-security								
28	IPv6 Source Guard policy	Critical	True	False	Not relevant ✓				
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
29	IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓				
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.									
30	IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓				
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.									
31	IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓				
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.									

Other

No.	Name	Severity	Skipped	Cannot determine Status search/fix			
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Successful 🗸		
Right configuration setting found in: no service pad							
2	BOOTP server disabled	High	False	False	Successful 🗸		
no ip	Right configuration setting found in: no ip bootp server						
3	Finger protocol disabled	High	False	False	Successful 🗸		
4	HTTP server disabled	High	False	False	Successful 🗸		
5	HTTPS server disabled	High	False	False	Successful 🗸		
6	TCP small server disabled	High	False	False	Successful 🗸		
7	UDP small server disabled	High	False	False	Successful 🗸		
8	IP domain lookup disabled	High	False	False	Successful 🗸		

^	nt configuration setting found in: o domain-lookup						
9	Gratuitous ARPs generation disabled	High	False	False	Successful 🗸		
	nt configuration setting found in: gratuitous-arps						
10	Gratuitous ARPs reject enabled	High	False	False	Successful 🗸		
_	nt configuration setting found in: p gratuitous none						
11	Netflow is disabled	Notice	False	False	Successful 🗸		
Зу d	gnore comment: efault fix is ignored due to disablement of traffic n itoring	nonitoring. Co	nsider whethe	r port mirroring	is neccesary for		
12	Netflow version 9 used	Medium	False	False	Not relevant ✓		
Mod	nment: ule 15_14_netflow_version_9.yaml configured to ru not run yet with specified cmd_match_status, 15_1						
13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓		
Comment: Module 15_15_netflow_interface.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_15_netflow_interface.yaml will not run							
Зу d	gnore comment: efault fix is ignored due to disablement of traffic n itoring	nonitoring. Co	nsider whethe	r port mirroring	is neccesary for		
14	Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸		
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for monitoring							
15	Notification on memory IO leak/overflow	w Medium	False	False	Error X		
Gen	Notification on memory IO leak/overflowerated fix: ption memory ignore overflow io	w Medium	False	False	Error X		
Gen exce	erated fix:	w Medium Medium	False	False False	Error X		
Gen exce 16 Gen	erated fix: ption memory ignore overflow io Notification on memory CPU						
Gen exce 16 Gen exce	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix:						
Gen exce 16 Gen exce	erated fix: ption memory ignore overflow io Notification on memory CPU leak/overflow erated fix: ption memory ignore overflow processor	Medium	False	False	Error X		
Gen exce 16 Gen exce 17	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled	Medium Medium	False False	False	Error X Successful ✓		
Gen Gen Gen Gen 17 18 19	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled	Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓		
Gen Gen Gen 16 Gen 17 18 19 Gen ip sc	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix:	Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓		
Gen 17 18 19	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: p server enable	Medium Medium Medium Medium	False False False	False False False	Error X Successful ✓ Successful ✓ Error X		
Gen Gen 16 Gen 17 18 19 Gen 20 21 Gen Gen	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: option server enabled SCP alias copy instead of TFTP	Medium Medium Medium Medium	False False False False	False False False False	Error X Successful ✓ Successful ✓ Error X		
Gen exce 16 Gen exce 17 18 19 Gen ip so 20 21 Gen secu	erated fix: option memory ignore overflow io Notification on memory CPU leak/overflow erated fix: option memory ignore overflow processor Network boot disabled Network config load disabled SCP server enabled erated fix: option server enabled SCP alias copy instead of TFTP Protection of configuration deletion erated fix: re boot config	Medium Medium Medium High High	False False False False False	False False False False False	Error X Successful ✓ Successful ✓ Error X Successful ✓ Error X		

archi log co loggi notify hidek path maxi time- mem	onfig ng enable y syslog contenttype plaintext							
23	Terminate hanged inbound TCP connection to device	Medium	False	False	Successful 🗸			
_	Right configuration setting found in: service tcp-keepalives-in							
24	Terminate hanged outbound TCP connection to device	Medium	False	False	Successful 🗸			
Right configuration setting found in: service tcp-keepalives-out								
25	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸			
	t configuration setting found in: ervice password-encryption							